

Stormwater and Flooding Strategy Paper

for ON TO 2050

Nora Beck

November 3, 2016



Agenda

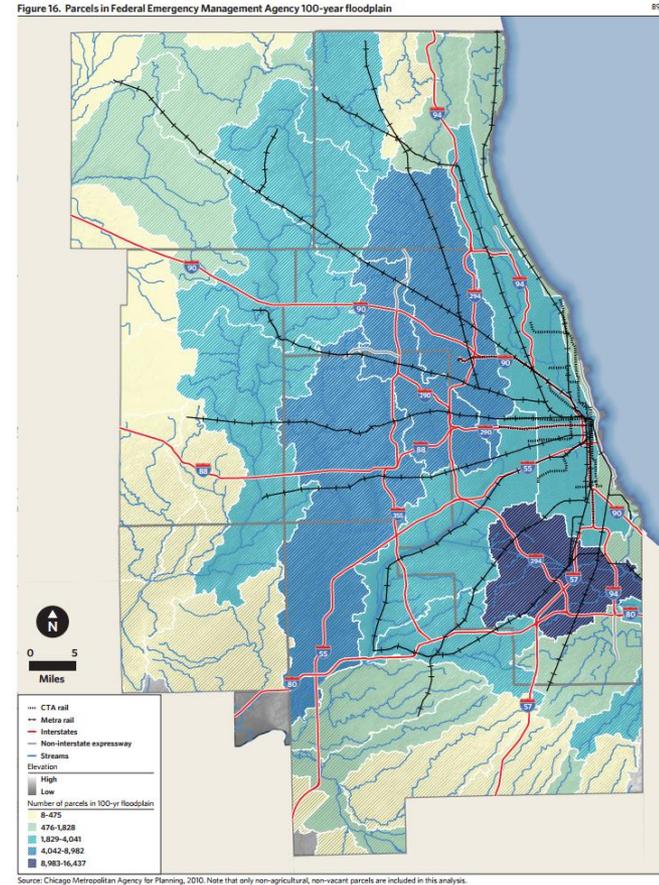
- GO TO 2040 Recommendations and Implementation
- Purpose of the Strategy Paper
- Scope of Work
- Connection to ON TO 2050 Policy Development
- Engagement Strategy
- Next Steps



GO TO 2040 Recommendations

Integrating land use policies and site planning with water resources.

- Identifies compact development, redevelopment, water conservation, and green infrastructure as techniques.
- Identifies watershed plans as a mechanism for identifying where stormwater management retrofits should be located.
- Recommends county stormwater ordinances not just rely on detention, but also reduce runoff volume and promote green infrastructure.
- Develop sources of financing for stormwater retrofits.
- Indicator - acres of impervious surface.
 - 2012: 556,000 acres
 - 2040: No more than 640,000 acres.



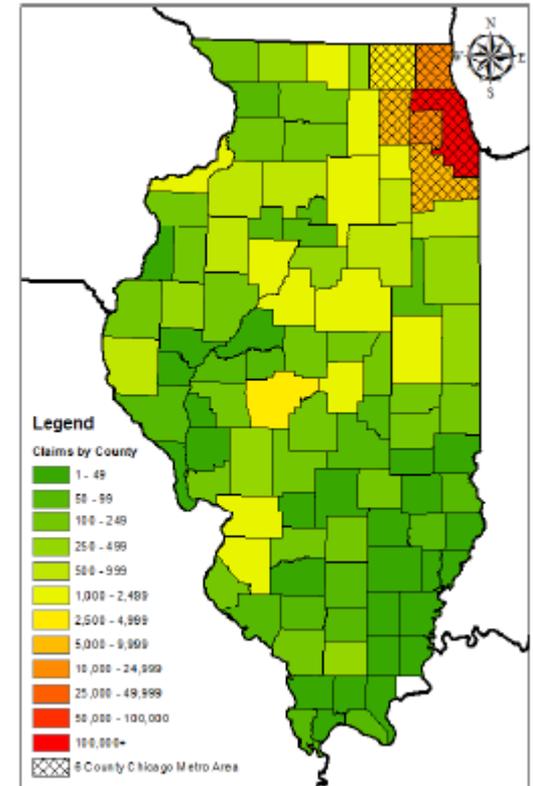
Recent Efforts

CMAP:

- Stormwater Utility Guidelines (2013)
- Climate Adaptation Guidebook (2013)
- LTA plans and planning-level stormwater analysis

Partners:

- Urban Flooding Awareness Act
- ISWS research on precipitation trends
- County and Stormwater Agency Efforts (regulations & capital)
- Calumet Stormwater Collaborative
- RainReady



Purpose of this Strategy Paper

- Integrate a better understanding of the extent and costs of both urban and riverine flooding, as well as how those could grow due to climate change, into ON TO 2050.
- Identify the barriers to effective stormwater management and develop policy approaches to reduce flooding impacts.
- Focus efforts in areas of greatest need in the region.



Scope of Work

Step 1: Causes and drivers of flooding

Step 2: Existing flooding impacts and extent

Step 3: Existing responses and approaches to stormwater and flood mitigation and prevention

Step 4: Identify barriers to effective stormwater management

Step 5: Building an effective regional response



Scope of Work

Step 1: Causes and drivers of flooding

Qualitative review to establish a core understanding for future recommendations.

- Review historical, current, and projected precipitation patterns.
- Review how the location, design, and extent of development has resulted in flooding and corresponding damages.



Scope of Work

Step 2: Existing flooding impacts and extent

Summarize documented damages of flooding. Explore impacts where flooding impacts are less well known:

- Transportation
- Open Space
- Vulnerable Populations
- Redevelopment
- Water Quality and Supply



Scope of Work

Step 3: Existing responses and approaches to stormwater management and flood mitigation and prevention.

Summarize our current strategies, likely organizing into different categories of response:

- Programmatic and capital
- Regulatory and design
- CMAP and partner policy recommendations



Scope of Work

Step 4: Identify barriers to effective stormwater management

Identify a couple of priority barriers to explore further using literature and peer State and MPO review. *Could* include items like:

- Changing precipitation and static design standards
- Real/perceived barriers to redevelopment
- Community capacity constraints
- Water quality and supply regulations



Scope of Work

Step 5: Building an effective regional response

- Develop a framework to address stormwater management in the next plan.
- Develop a regional analysis that identifies priority areas across the region for flooding mitigation activities.



Connection with ON TO 2050 Development

- Build connections with other policy work being developed for the next plan:
 - Water Strategy Paper
 - Integrating Green Infrastructure Strategy Paper
 - Climate Resilience Strategy Paper
 - Reinvestment and Infill Strategy Paper
 - Lands in Transition Strategy Paper
 - Highway Operations Strategy Paper
 - Inclusive Growth Strategy Paper
 - Natural Resources Snapshot
 - Alternative Futures Scenario Planning



Engagement Strategy

- Utilize the expertise of the ENR Committee to review deliverables and provide guidance on potential policy recommendations.
- Stakeholder interviews with County Stormwater Agencies, Departments of Transportation, and Forest Preserve Districts, and State Agencies - IDNR, ISWS, and IDOT.
- Stakeholder interviews with the Calumet Stormwater Collaborative, Watershed Groups, and non-profits like the Center for Neighborhood Technology, Illinois Environmental Council, and Delta Institute.



Timeline

- **February – Memo 1:** Causes and existing flooding impacts
- **March – Memo 2:** Current responses and priority barriers
- **May – Memo 3:** Approaches to priority barriers and a draft framework
- **June – Draft Strategy Paper**
- **July – Final Strategy Paper**

